

MRP-F320

DC-DC 4/3/2 Channel + Subwoofer Drive Power Amplifier

MRP-F200

DC-DC 4/3/2 Channel Power Amplifier

MRP-T130

DC-DC 2/1 Channel Power Amplifier

OWNER'S MANUAL

Please read this manual to maximize your enjoyment of the outstanding performance and feature capabilities of the equipment, then retain the manual for future reference.

MODE D'EMPLOI

Veuillez lire ce mode d'emploi pour tirer pleinement profit des excellentes performances et fonctions de cet appareil, et conservez-le pour toute référence future.

MANUAL DE OPERACION

Lea este manual, por favor, para disfrutar al máximo de las excepcionales prestaciones y posibilidades funcionales que ofrece el equipo, luego guarde el manual para usarlo como referencia en el futuro.

FNGLISH

Please read this OWNER'S MANUAL thoroughly to familiarize yourself with each control and function. We at ALPINE hope that your new MRP-F320/MRP-F200/MRP-T130 will give you many years of listening enjoyment.

In case of problems when installing your MRP-F320/MRP-F200/MRP-T130, please contact your authorized ALPINE dealer.

CAUTION: These controls are for tuning your system. Please consult your authorized Dealer for adjustment.

PRECAUTIONS

- Perform the installation at a location that is level. Make sure the parking brake is on and the ignition is OFF.
- Always disconnect the cable from the (–) negative pole of the battery before connecting or disconnecting the MRP-F320/MRP-F200/MRP-T130. This will prevent the possibility of short circuits.
- . When replacing a blown fuse make sure to replace it with one of the same value.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.
- This unit is designed for 12 VDC, negative ground systems. Make sure that your vehicle has this type of electrical system before connecting the power cable.
- When making connections to the car's electrical system, be aware of the factory installed
 components (e.g. on-board computer). Do not tap into these leads to provide power for this unit.
 When connecting the MRP-F320/MRP-F200/MRP-T130 to the fuse box, make sure the fuse for the
 intended circuit of the MRP-F320/MRP-F200/MRP-T130 has the appropriate amperage. Failure to
 do so may result in damage to the unit and/or the vehicle. When in doubt, consult your ALPINE
 dealer.
- The MRP-F320/MRP-F200/MRP-T130 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized ALPINE dealer for assistance.
- Due to the high power output of the MRP-F320/MRP-F200/MRP-T130, it is important that all
 connections are clean and well secured, or damage could result.
- When installation and connections are completed, check the followings: a) Connections are
 proper. b) Operation of brake lamps, horn etc. are proper with the ignition ON. c) Operation of
 audio units is proper with the switch ON.

SERVICE CARE

IMPORTANT NOTICE

This Amplifier has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules. This equipment generates and uses radio frequency energy, and it must be installed and used properly in accordance with the manufacturer's instructions.

SERIAL NUMBER:
INSTALLATION DATE:
INSTALLATION TECHNICIAN:
PLACE OF PURCHASE:

IMPORTANT

Please record the serial number of your unit in the space provided here and keep it as a permanent record. The serial number plate is located on the rear of the unit.

SPECIFICATIONS

Per channel into 4 ohms

MRP-F320

40W

Power Output: RMS Continuous Power (at 14.4V, 20 Hz to 20 kHz)

MRP-F200

40W 0.08% THD

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Per channel into 2 ohms	50W	50W	65W	
	0.3% THD			
Bridged into 4 ohms	100W			
	120W	100W	130W	
	(Subwoofer, 20 to 200 Hz)			
	0.3% THD			
Max. Power Output (at 14.	4V)			
Per channel into 4 ohms	75W	75W	90W	
Bridged into 4 ohms	180W	180W	240W	
Frequency Response	10 Hz to 50 kHz			
	(+0, -1 dB)			
Signal-to-Noise Ratio	100 dB			
	(referenced to rated power)			
Slew factor		Greater than 5		
Input Sensitivity (for rated power output)	200 mV to 4.0 V (1.0 V at center detent)			
Input Impedance	10k ohms <			
Speaker Impedance	4 or 2 ohms (Stereo), 4 ohms (Bridged)			
Active Dividing Network	80 Hz, 18 dB per octave			
Frequency and Slope	(HP. CH1 – 4)	80 Hz, 18 dB per octave		
	50 - 200 Hz, 12 dB per octave			
	(LP. Subwoofer)			
Power Requirement	11 – 16 VDC Negative Ground		d	
Bass EQ		50 Hz + 8 dB FIX		
	(CH 5 only)	(CH 3/4)		

For product improvement, specifications and design are subject to change without notice.

MRP-T130

50W



Alpine Electronics, Inc. Tokyo office: 1-1-8 Nishi Gotanda, Shinagawa-ku, Tokyo 141-8501, Japan Tel.: (03) 3494-1101

Alpine Electronics of America, Inc. 19145 Gramercy Place, Torrance, California 90501, U.S.A. Tel.: 1-800-ALPINE-1 (1-800-257-4631)

Alpine Electronics of Canada, Inc. Suite 203, 7300 Warden Ave. Markham, Ontario L3R 9Z6, Canada Tel.: 1-800-ALPINE-1 (1-800-257-4631)

Alpine Electronics of Australia Pty. Ltd. 6-8 Fiveways Boulevarde Keysborough, Victoria 3173, Australia Tel.: (03) 9769-0000

Alpine Electronics GmbH Kreuzerkamp 7-11 40878 Ratingen, Germany Tel.: 02102-45 50

Alpine Italia S.p.A. Via C. Colombo 8, 20090 Trezzano Sul Naviglio MI, Italy Tel.: 02-48 40 16 24

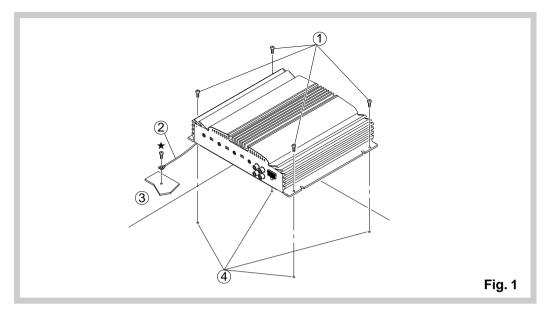
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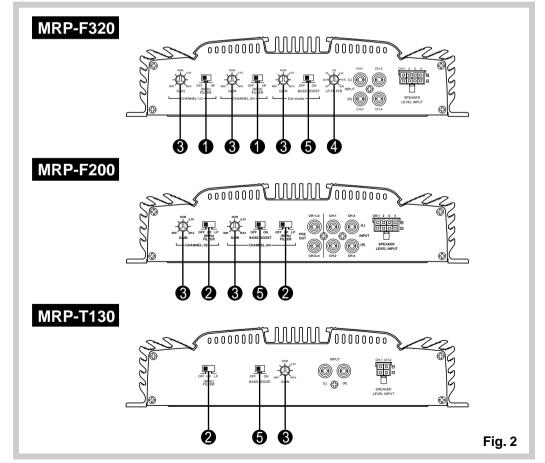
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Alpine Electronics de España S.A. Portal De Gamarra 36, Pabellón 32 01013 Vitoria (Alava) - Apdo. 133, Spain Tel.: 34-45-283588

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INSTALLATION (Fig. 1)

Due to the high power output of the MRP-F320/MRP-F200/MRP-T130, considerable heat is produced when the amplifier is in operation. For this reason, the amplifier should be mounted in a location which will allow for free circulation of air, such as inside the trunk. For alternate installation locations, please contact your authorized Alpine dealer.

- 1. Using the amplifier as a template, mark the four screw locations.
- 2. Make sure there are no objects behind the surface that may become damaged during drilling.
- 3. Drill the screw holes.
- 4. Position the MRP-F320/MRP-F200/MRP-T130 over the screw holes, and secure with four selftapping screws.

NOTE:

To securely connect the ground lead, use an already installed screw on the metal part of the vehicle (marked (★)). Be sure this is a good ground by checking continuity to the battery (-) terminal. As much as possible connect all equipment to the same ground point. These procedures will help eliminate noise.

- ① Self-Tapping Screws (M4 x 14)
- ② Ground Lead
- ③ Chassis
- 4 Holes

SWITCH SETTINGS (Fig. 2)

1 Crossover Mode Selector Switch (MRP-F320)



a) Set to the "HP" position when the amplifier is used to drive a tweeter/ midrange system. The frequencies below the crossover point will be attenuated at 18 dB/octave.



b) Set to the "OFF" position when the amplifier will be used for driving full-range speakers. The full frequency bandwidth will be output to the speakers with no high or low frequency attenuation.

2 Crossover Mode Selector Switch (MRP-F200/ MRP-T130)



a) Set to the "LP" position when the amplifier is used to drive a subwoofer. The frequencies above the crossover point will be attenuated at 18 dB/octave.



b) Set to the "HP" position when the amplifier is used to drive a tweeter/ midrange system. The frequencies below the crossover point will be attenuated at 18 dB/octave.



c) Set to the "OFF" position when the amplifier will be used for driving full-range speakers. The full frequency bandwidth will be output to the speakers with no high or low frequency attenuation.

(3) Input Gain Adjustment Control Set the MRP-F320/MRP-F200/MRP-T130 input gain knobs to the minimum (4V) position. Using a loud cassette or preferably a CD as a source, turn up the head unit volume until it distorts. Then, reduce the volume 1 step. You can then increase amplifier gain until the sound from the speakers becomes distorted.

4 Crossover Frequency Adjustment Knob (MRP-F320 only)

Permits adjustment of the crossover frequency, by rotating the knob to select any frequency between 50 to 200 Hz as the crossover point.

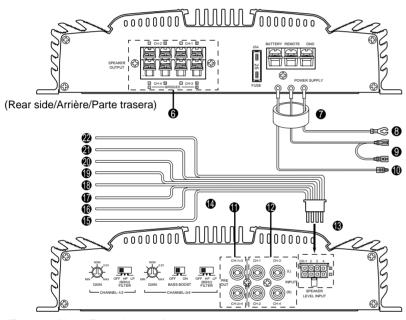
6 BASS BOOST Switch

Set to ON when increasing the low range level.

(Rear side/Arrière/Parte trasera) (Rear side/Arrière/Parte trasera)

MRP-F200

(Front side/Avant/Parte delantera)



(Front side/Avant/Parte delantera)

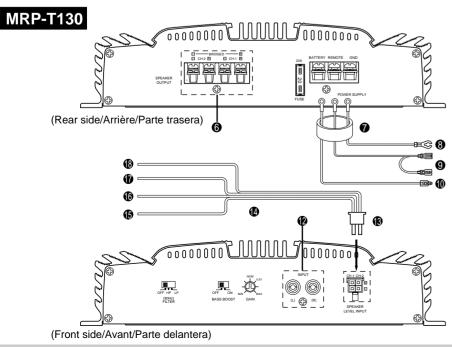


Fig. 3

CONNECTIONS (Fig. 3 – Fig. 13)

Before making connections, be sure to turn the power off to all audio components. Connect the yellow battery lead from the amp directly to the positive (+) terminal of the vehicle's battery. Do not connect this lead to the fuse block.

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove the coating if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various Alpine noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

Speaker Output Terminal

The MRP-F320/MRP-F200/MRP-T130 has two sets of speaker outputs. Be sure to observe correct speaker output connections and phasing. In the stereo mode, connect the right speaker outputs to the right speaker and the left to left. Connect the positive output to the positive speaker terminal and the negative to negative.

In the bridged mode, connect the left positive to the positive terminal on the speaker and the right negative to the negative terminal of the speaker. Do not use the speaker (–) terminals as a common lead between the left and right channels. Do not connect this lead to the vehicle's chassis.

NOTES:

- Do not connect speaker leads together or to chassis ground.
- In case of bridge connection, use Y-adaptor (sold separately). (Refer to the "Bridge Connections" below.)

nsulation Tube

Use for POWER SUPPLY (BATTERY/REMOTE/GND) and SPEAKER OUTPUT terminals.

3 Ground Lead (Black) (Sold Separately)

Connect this lead securely to a clean, bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between that point and the negative (–) terminal of the vehicle's battery. Ground all your audio components to the same point on the chassis to prevent ground loops.

Remote Turn-On Lead (Blue/White) (Sold Separately)

Connect this lead to the remote turn-on or power antenna (positive trigger, (+) 12V only) lead of your head unit.

Battery Lead (Yellow) (Sold Separately)

Be sure to add a $\star 30$ amp fuse as close as possible to the battery's positive (+) terminal. This fuse will protect your vehicle's electrical system in case of a short circuit. If you need to extend this lead, the wire gauge should be 8 AWG or larger.

★ MRP-F320 ... 30 amp fuse MRP-F200 ... 25 amp fuse MRP-T130 ... 20 amp fuse

Pre-Out Jacks (MRP-F200 only)

These jacks provide a Front + Rear summed output (Non-fading). This is an ideal output for driving a separate subwoofer amp. This output is full-range, and is not affected by the crossover.

RCA Input Jacks

Connect these jacks to the line out leads on your head unit using RCA extension cables (sold separately). Be sure to observe correct channel connections; Left to Left and Right to Right. (Front to Front and Rear to Rear (except for MRP-T130))

Speaker Level Input Connector

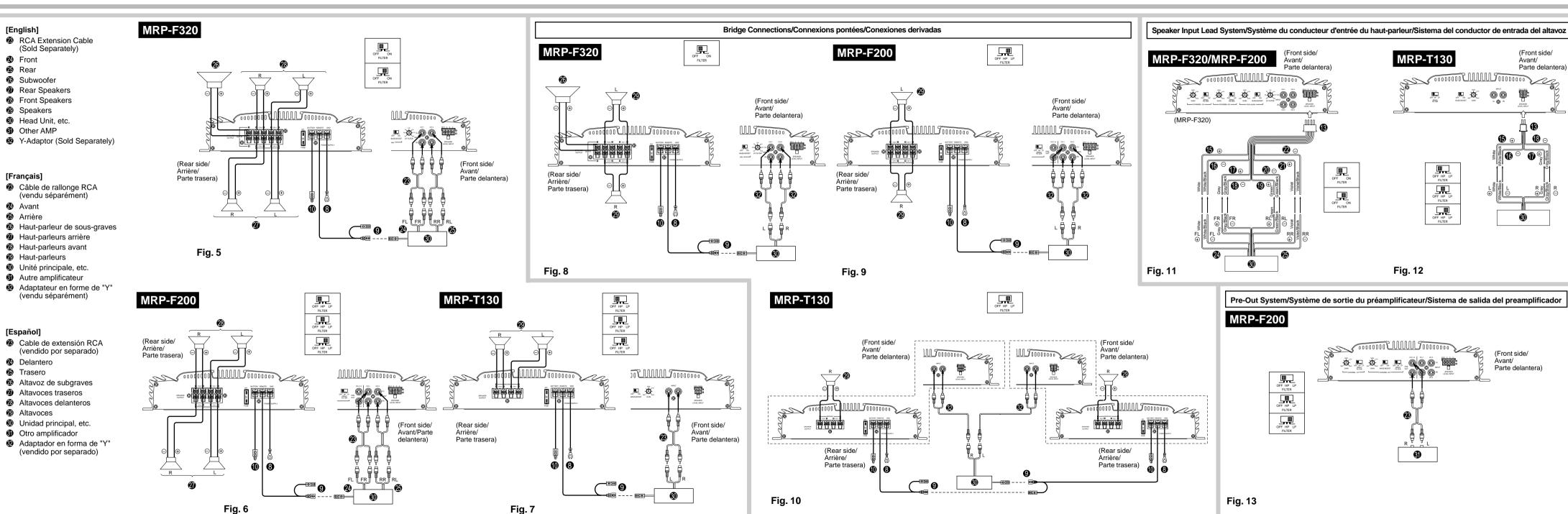
These leads are input leads for use with head units not equipped with preamp outputs. When not using the RCA Line Input connectors, you should connect these wires to the speaker output leads of your head unit. The MRP-F320/MRP-F200/MRP-T130 accepts input from high power or standard power head units.

Speaker Input Leads

These leads are input leads for use with head units not equipped with preamp outputs. Connect these wires to the speaker output leads of your head unit. The MRP-F320/MRP-F200/MRP-T130 accepts input from high power or standard power head units.

- (Front Left Speaker (White (+))
- Front Left Speaker (White/Black (-))
- Front Right Speaker (Gray (+))
- Front Right Speaker (Gray/Black (-))
- Rear Left Speaker (Green (+))
 (except for MRP-T130)
- Rear Left Speaker (Green/Black (-))
 (except for MRP-T130)
- Rear Right Speaker (Violet (+)) (except for MRP-T130)
- Rear Right Speaker (Violet/Black (-)) (except for MRP-T130)

TYPICAL SYSTEM CONNECTIONS/CONNEXIONS TYPIQUES DU SYSTÈME/CONEXIONES TIPICAS DEL SISTEMA



(Front side/

Àvant/ Parte delantera)

(Front side/

Parte delantera)

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	Product purchased 1.
	Model Number:
	Date of Purchase: Month: Year:
-1	If navigation system, which monitor?
$\rightarrow \rangle$	Alpine → (Model No.) Other → (Brand Name)
v	Purpose of buying this unit? 1. ☐ Addition 2. ☐ Replacement → *Previous brand replaced? 1. ☐ Factory installed 2. ☐ Alpine 3. ☐ Other
	☐ Have you purchased Alpine products before? 1. ☐ First time 2. ☐ Two or more times

When you purchased this Alpine unit, did you compare it with other brands? 1. Yes 2. No. (Brand Name)
Which of the following statements best describes you 1. I usually have more electronic equipment than my friends 2. I am usually one of the first of my friends to buy the newes electronic equipment 3. I usually wait until a product has been out for a while befor I purchase it 4. I am usually on of the first of my friends to know about the newest car 5. I usually know more about cars than my friends
Occupation 1. Executive/Managerial 6. Engineering/Technical 2. Secretarial/Clerical 7. Farming/Fishing 3. Sales 8. Retired 4. General Labor 9. Student 5. Professional 10. Other
Household Income 1. Less than \$30,000
Type of vehicle in which this unit is installed.
Make: Model: Purchased Year: Model Year:
How was this vehicle purchased? i. ☐ Bought 2. ☐ Leased



LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

@PRODUCTS COVERED:

This Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

©LENGTH OF WARRANTY:

This Warranty is in effect for one year from the date of the first consumer purchase.

©LIFETIME TAPE HEAD WARRANTY:

All Alpine Car Audio analog tape heads are warranted for life against manufacturing defects causing failure.

©LIFETIME QRB CONNECTOR WARRANTY:

All Alpine Car Audio Quick Release Bracket connectors are warranted for life against manufacturing defects causing failure.

WHO IS COVERED:

This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

WHAT IS COVERED:

This Warranty covers defects in materials or workmanship (parts and labor) in the product.

OWHAT IS NOT COVERED:

This Warranty does not cover the following:

- ① Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
- ② Damage caused by accident, abuse, negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.
- ③ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature.
- Any cost or expense related to the removal or reinstallation of the product.
- Service performed by an unauthorized person, company or association.
- (6) Any product which has the serial number defaced, altered or removed.
- ② Any product which has been adjusted, altered or modified without Alpine's consent.
- (8) Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
- (9) Any product not purchased from an Authorized Alpine Dealer.

@HOW TO OBTAIN WARRANTY SERVICE:

1 You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the

- product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.
- ② You should provide a detailed description of the problem(s) for which service is required.
- You must supply proof of your purchase of the product
- You must package the product securely to avoid damage during shipment.

@HOW WE LIMIT IMPLIED WARRANTIES:

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

@HOW WE EXCLUDE CERTAIN DAMAGES:

ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY, THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

©HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion of limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

@IN CANADA ONLY:

This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

©HOW TO CONTACT CUSTOMER SERVICE:

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

U.S.A. 1-800-ALPINE-1 (1-800-257-4631) CANADA 1-800-ALPINE-1 (1-800-257-4631)

Alpine Electronics of America, Inc., 19145 Gramercy Place, Torrance, California 90501, U.S.A. Alpine Electronics of Canada, Inc., Suite 203, 7300 Warden Ave. Markham, Ontario L3R 9Z6, Canada